(19) World Intellectual Property Organization International Bureau



000 MB 1010 MB

(43) International Publication Date 11 April 2002 (11.04.2002)

PCT

(10) International Publication Number WO 02/029930 A3

(51) International Patent Classification?: H01B 12/16 H01R 4/68,

- (21) International Application Number: PCT/DK01/00639
- (22) International Filing Date: 2 October 2001 (02.10.2001)
- (25) Filing Language:

Danish

(26) Publication Language:

English

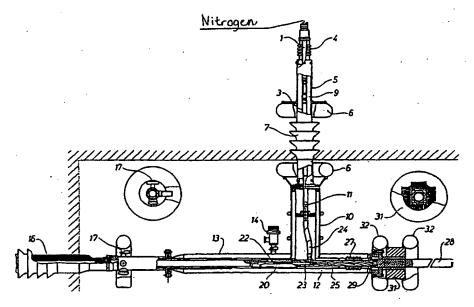
- (30) Priority Data:
 PA 2000 01454 2 October 2000 (02.10.2000) D
- (71) Applicant (for all designated States except US): NKT RESEARCH & INNOVATION A/S [DK/DK]: Group IP, Danmarks Tekniske Universitet, Diplomvej, Bldg 373, DK-2800 Lyngby (DK).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RASMUSSEN, Claus, Nygaard [DK/DK]: Knivholtvej 16, 1. tv., DK-2720 Vanløse (DK). HANSEN, Finn [DK/DK];

Poppel Allé 11, st.tv., DK-4000 Roskilde (DK). RAS-MUSSEN, Carsten [DK/DK]; Irmingersgade 15, st.tv., DK-2100 København Ø (DK).

- (74) Agent: NIELSEN, Hans, Jorgen, Vind; NKT Research & Innovation A/S, Group IP, Danmarks Tekniske Universitet, Diplomvej, Bldg 373, DK-2800 Lyngby (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EC, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,

[Continued on next page]

(54) Title: A TERMINAL CONNECTION FOR A SUPERCONDUCTIVE CABLE



(57) Abstract: A terminal connection of a superconductive cable comprising a thermally insulating high-voltage cable through whose interior liquid nitrogen flows. The superconductive cable comprises a plurality of superconductive tapes which are in connection with a copper block (20), which is likewise cooled by means of the liquid nitrogen, and is in connection via flexible electrical conductors (25) with a top bolt (28) which may be connected to electrical equipment at room temperature. Via a T member, the liquid nitrogen is in connection with a cooling machine which is electrically insulated from the remaining part of the terminal connection.

./029930 A:



CG, Cl, CM, GA. GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report: 18 July 2002

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No. PCT/DK 01/00639

A. CLAS	SIFICATION OF SUBJECT MATTER							
IPC7:	HOIR 4/68, HOIB 12/16 of the both no control	ational classification and IPC	<u> </u>					
B. FIELDS SEARCHED								
Minimum d	ocumentation searched (classification system followed by	y classification symbols)						
IPC7: I	H01R, H01B							
Documenta	tion searched other than minimum documentation to the	extent that such documents are included it	n the fields searched					
	•	· .						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
		·						
			•					
C. DOCL	MENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.					
A	US 6049036 A (PIERO METRA), 11	April 2000	1-13					
.,	(11.04.00), see whole docume	ent						
								
A	US 5319154 A (JEAN-CLAUDE KERMAF (07.06.94), see whole docume	RREC), 7 June 1994	1-13					
	(U/. UU. 34), SEE HIIDTE USCUM							
		•						
A	US 3959576 A (PETER PENCZYNSKI I 1976 (25.05.76), see whole o	1-13						
A	US 3902000 A (ERIC B. FORSYTH E 26 August 1975 (26.08.75),	「 AL), see whole document	1-13					
X Furth	er documents are listed in the continuation of Box	x C. X See patent family anne	x. ·					
• Special categories of cited documents T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention								
to be of particular relevance "E" earlier application or patent but published on or after the international "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive								
cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is								
means	means being obvious to a person stalled in the art							
the pric	arity date claimed	Date of mailing of the international						
Date of the	e actual completion of the international search	1 5. 04. Q2						
25 Mars	ch 2002	1 % 02' 05						
Name and	mailing address of the ISA/	Authorized officer	•					
NL-2280 HV Rig	nt Office P.B. 5818 Patentiaan 2 Swift	Stig Edhborg/MN						
Tell+31-70340	-2040, Tx 31 651 epo nl,	Tolonhono No	:					

INTERNATIONAL SEARCH REPORT

International application No. PCT/DK 01/00639

	ation). DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant	it passages	Relevant to claim No
Category*	Patent Abstracts of Japan, Vol 2000, No 2, 29 February 2000 (29.02.00), abstract of JP 11-329526 A (SUMITOMO HEAVY IND LTD), 30 November 1999 (30.11.99), see abstract	1-13	
A	Patent Abstracts of Japan, Vol 1999, No 1, 29 January 1999 (29.01.99), abstract of JP 10-283854 A (FUJIKURA LTD), 23 October 1998 (23.10.98), see abstract		1-13
-			
;			

INTERNATIONAL SEARCH REPORT

Information on patent family members

28/01/02

International application No. PCT/DK 01/00639

Patent document cited in search report			Publication date		Patent family member(s)	Publication date
US	6049036		11/04/00	AU AU BR CA EP IT IT JP NZ	707596 B 7427196 A 9604741 A 2192533 A 0780926 A 1281651 B MI952723 A 9190847 A 299899 A	15/07/99 26/06/97 23/06/98 22/06/97 25/06/97 20/02/98 23/06/97 22/07/97 25/03/98
US	5319154	A	07/06/94	CA -DE EP FR JP JP	2055809 A 69104462 D,T 0487043 A,B 2669470 A,B 3100083 B 5030632 A	21/05/92 09/02/ 9 5 27/05/92 22/05/92 16/10/00 05/02/93
u's	3959576	A	25/05/76	AT AT CA CH DE FR GB IT JP	339979 B 958374 A 1030622 A 594999 A 2409868 A,B 2262855 A,B 1499434 A 1033299 B 50121792 A	25/11/77 15/03/77 02/05/78 31/01/78 11/09/75 26/09/75 01/02/78 10/07/79 23/09/75
US	3902000		26/08/75	NONE		